AMENDMENTS TO THE CLAIMS

1-11. (Canceled)

12. (Currently Amended) A network system, comprising:

a plurality of network devices connected to a network~~, each of the plurality of network devices transmitting and receiving data through the network~~; and

a managing device configured to:

manage ~~the network based on~~ network state information for managing and controlling the plurality of network devices included in the network, wherein the network state information includes unique information uniquely assigned to devices included in the network for identifying each device in the network and the unique information is assigned by the managing device;

detect whether a new device is entered into the network;

identify a capability of the new device;

determine, based on the identified capability of the new device, whether the new device can be a management device managing the network and the plurality of network devices; and

transmit, if the new device is determined as the management device, the network state information to the new device such that the new device operates as the management device for subsequent network management~~,~~

~~wherein when a new device is connected to the network, the managing device determines whether the new device is to be a new network device or a device managing the network, and if the new device is determined to be the device managing the network, the managing device transmits the network state information to the new device~~.

13. (Canceled)

14. (Previously Presented) The network system according to claim 12, wherein when the new device is connected to the network, the new device transmits an address of the new device to the managing device.

15. (Currently Amended) A method for configuring a network including a plurality of network devices and a managing device managing the plurality of network devices, the method comprising:

~~entering, by a new device, into the network, wherein a plurality of network devices is connected to the network and each of the plurality of network devices transmits and receives data through the network;~~

managing, by the managing device, network state information for managing and controlling the plurality of network devices included in the network, wherein the network state information includes unique information uniquely assigned to devices included in the network for identifying each devices in the network, and the unique information is assigned by the managing device;

detecting, by the managing device, whether a new device is entered into the network;

identifying, by the managing device, a capability of the new device;

determining, by [[a]]the managing device, whether the new device can be a management device managing the network and the plurality of network devices based on the identified capability of the new device~~or not the new device is to be a new network device or a device~~

~~managing the network, wherein the managing device manages the network based on network state information~~; and

transmitting, by the managing device, the network state information to the new device such that the new device operates as the management device for subsequent network management, if the new device is determined as the management device~~the network state information to the entered new device when the new device is determined to be the device managing the network~~.

16. (Canceled)

17. (Previously Presented) The method according to claim 15, further comprising:

transmitting, by the new device, an address of the new device to the managing device.